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The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Woven fabric: 92% nylon 8% spandex in 16-1107TPX beige for adult garment

Style No. : Pant Atacama

Buyer : VICSA SAFETY COMERCIAL LIMITADA

Country of Destination : Chile

Proposed Care Instruction :

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Dec 01, 2016

Testing Period : Dec 01, 2016 - Dec 02, 2016

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the

sample(s) tested. For further details, please refer to the following page(s).

Conclusion

Ultraviolet Protection Factor / UPF M

Remarks: M=Meet Client's Requirement

Signed for and on behalf of

Lattie Chen

SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd

Hattie Chen

Account Executive



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Test Result

Requirement

Ultraviolet Protection Factor / UPF

(AATCC 183-2014)

As Received

	Dry Evaluation	Wet Evaluation	
Mean Ultraviolet Protection Factor (UPF):	68	59	
Standard Deviation :	5.0	0.6	
Rated UPF:	50+	50+	50+
Protection Category	Excellent	Excellent	
Percent Transmittance, T (UV-A):	2.48	3.44	
Percent Transmittance, T (UV-B):	1.26	1.40	
The Percent Blocking, UV-A:	97.52	96.56	
The Percent Blocking, UV-B:	98.74	98.60	

Test was conducted in wavelength range: 280 - 400 nm

Instrument: UV - Vis Spectrophotometer model

No. of Scans: 6 Remarks:

- (1) Ultraviolet Protection Factor (UPF) is the ratio of the average effective ultraviolet radiation (UV-R) irradiance transmitted and calculated through air to the average effective UV-R irradiance transmitted and calculated through fabric.
- (2) The limits of the spectral range of ultraviolet radiation are not well defined and may vary according to the user. Committee E-2.12 of the International Commission on Illumination (CIE) distinguishes in the spectral range between 400 and 100 nm:

UV-A: 315 – 400 nm UV-B: 280 – 315 nm UV-R: 280 – 400 nm

- (3) This method can also be used to determine the UPF of wet and/or stretched fabrics. However, the techniques for wetting and/or stretching the specimens are not part of this method and are addressed in a separate test procedure. It must be noted that wetting and/or stretching the specimens could change the UPF properties.
- (4) Refer to ASTM D6603-11, the UV protection category is determined by the UPF values,

UPF 40 or greater Excellent UV Protection

UPF in between 25 to 39
UPF in between 15 to 24
UPF less than 15
Very Good UV Protection
Good UV Protection
Unclassification

(5) The listed protection category is for reference only; the market claims for labeling UV-Protection product shall follow "Standard Guide For Labeling UV-Protection Textiles" as stated in ASTM D6603-11



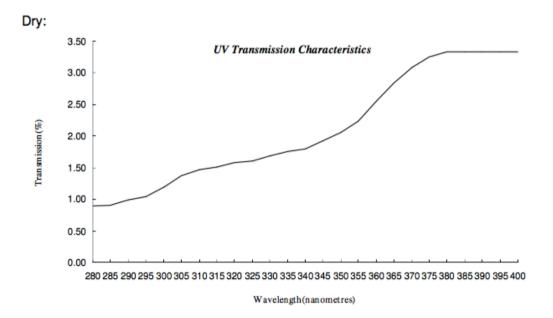
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Wet:

6.00

4.00

2.00

1.00

280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400

Wavelength(nanometres)



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Sample Photo



*** End of Report ***



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